



**Barcelona
Supercomputing
Center**

Centro Nacional de Supercomputación



EXCELENCIA
SEVERO
OCHOA

EC-Earth users needs: survey on workflows tools

Domingo Manubens, & the TWG

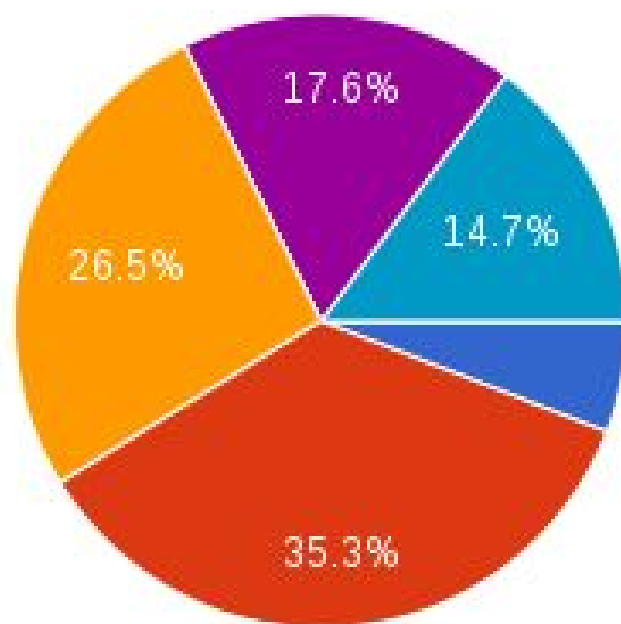


- BSC asked the TWG about the need to build a strategy for a common workflow manager tool.
- It could be Autosubmit, Cylc or another tool.
- The workflow management system should remain optional.
- Workflow tools are not only made for production runs but also for new users, allowing them to start earlier to use the model.
- They are also useful in the testing/development phase.
- The needs of the community should be taken into account.
- BSC asked the TWG about taking the lead in this topic in order to build a strategy to deploy a workflow tool endorsed by the TWG.
- The first action was to create a survey to know how the users are running the model and which are their needs.

- Participants: **34** (12 countries / 18 institutions)

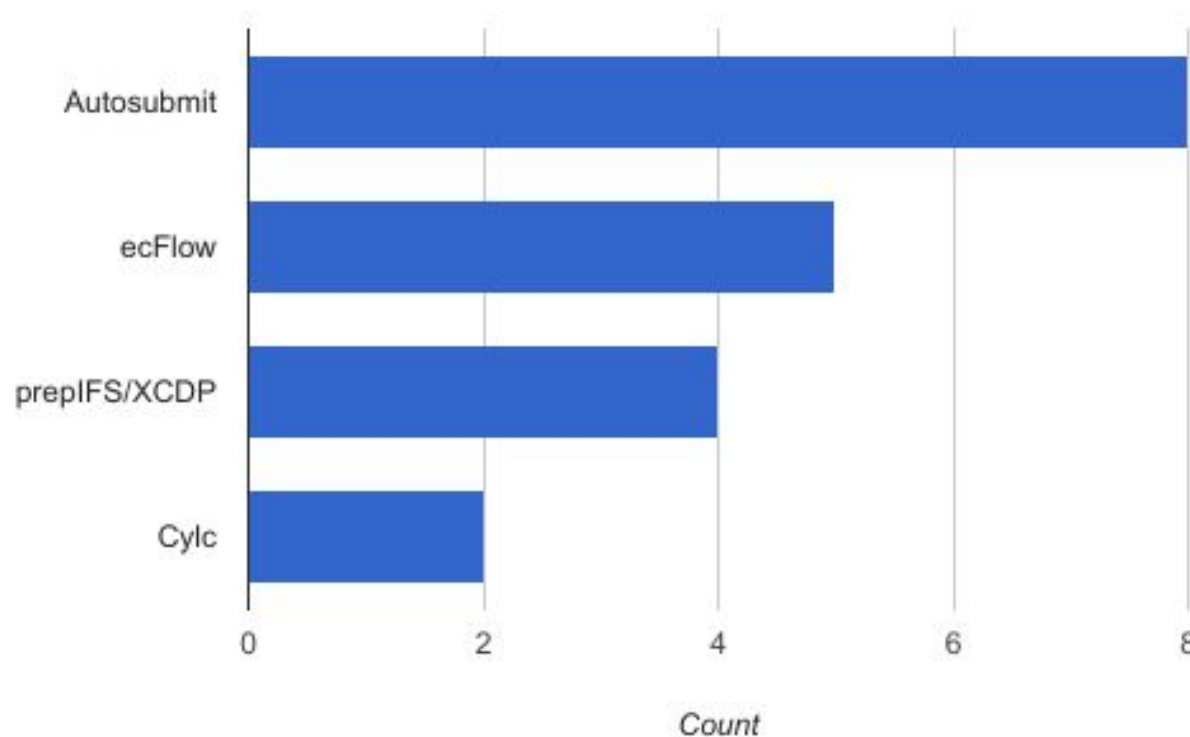
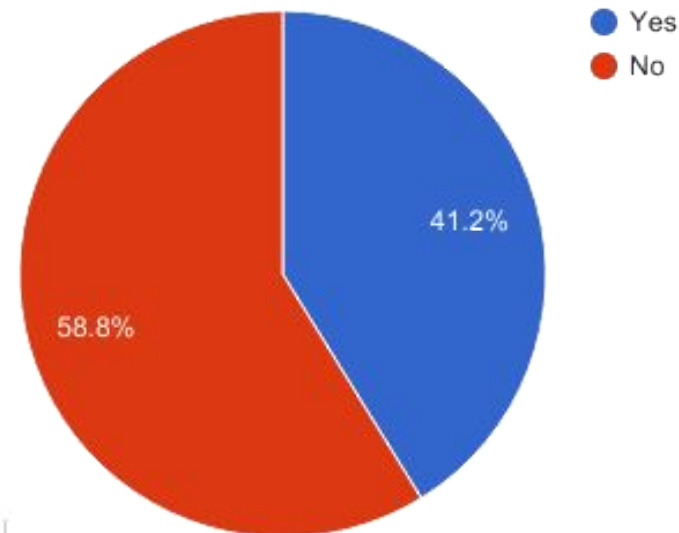
Country	Institution	# participants
Sweden	Lund (3), SU (2), SMHI (2)	7
Spain	BSC	6
Netherlands	KNMI (3), NSC (1), IMAU(1)	5
Finland	FMI (3), CSC (1)	4
Belgium	UCL	3
Germany	AWI (1), KIT (1)	2
Denmark	DMI	2
Italy	ENEA	1
Norway	UiB	1
Portugal	UL	1
United Kingdom	University of Oxford	1
Ireland	ICHEC	1

- Participants profile



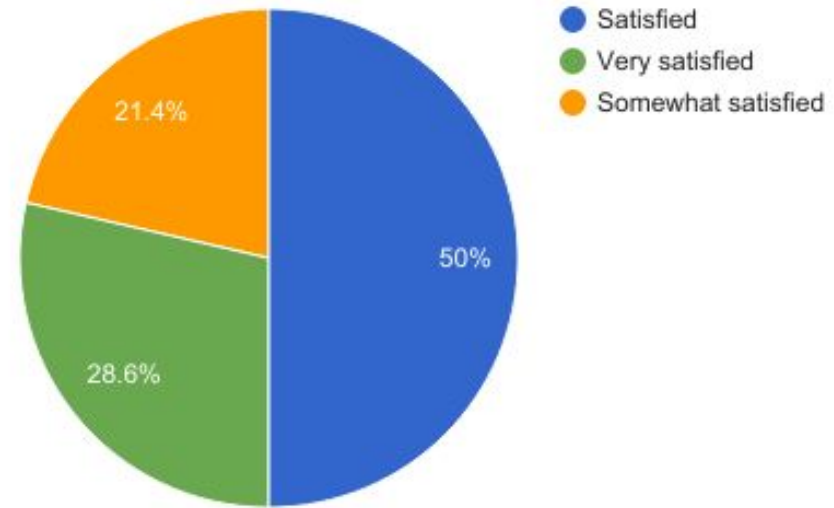
- Group leader
- Post-doc researcher
- Researcher
- PhD student
- Scientific programmer
- Engineer
- Other

- Have you used a workflow management system?



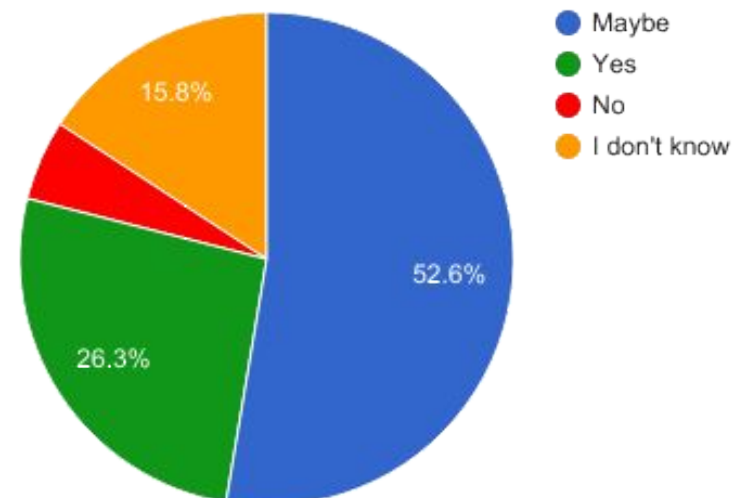
15 responses (Yes)

- How satisfactory your experience is?

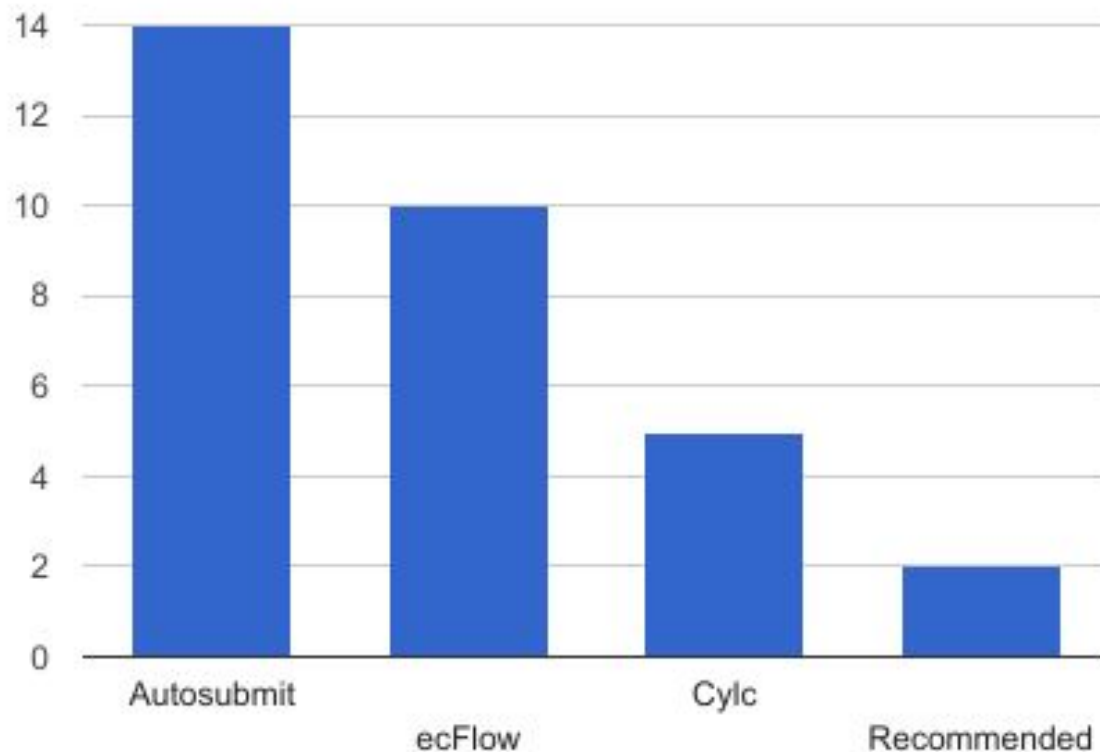


19 responses (No)

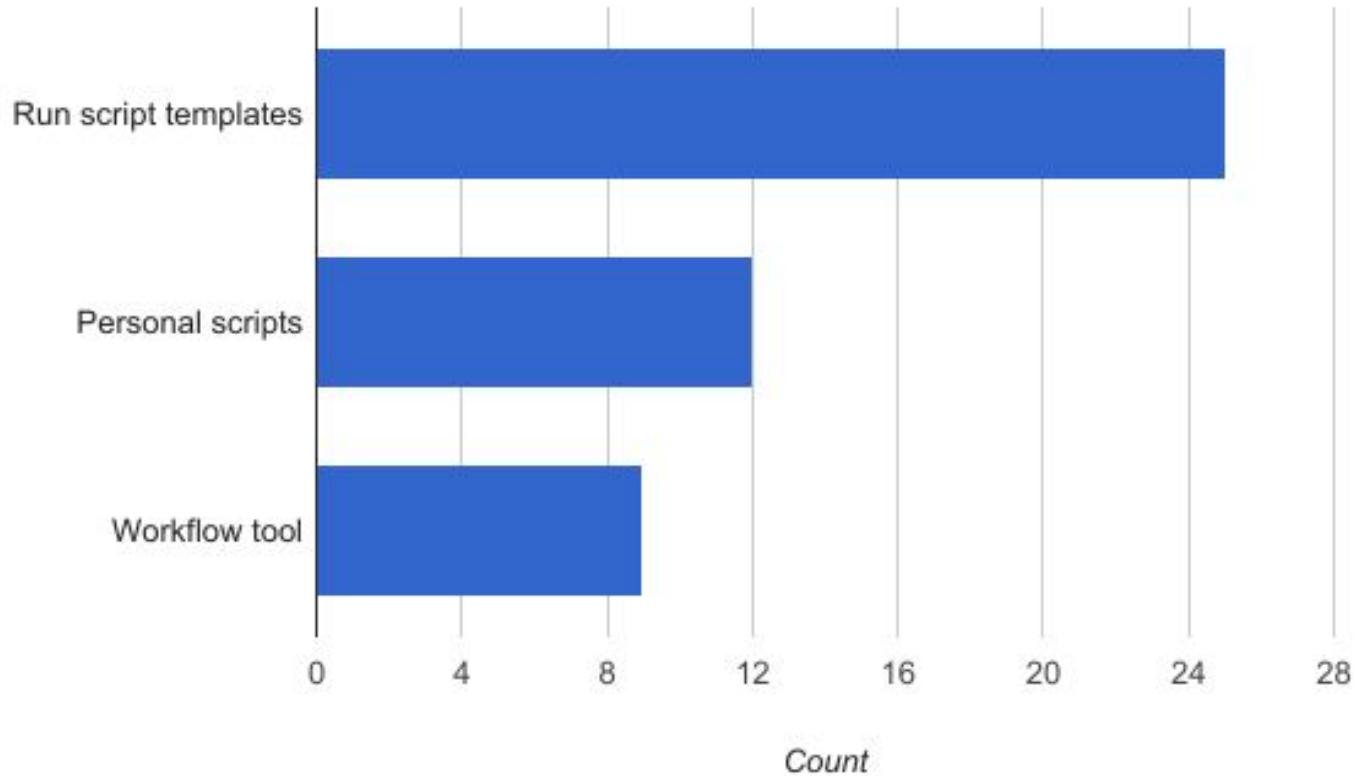
- Would a workflow management system be useful to your work?



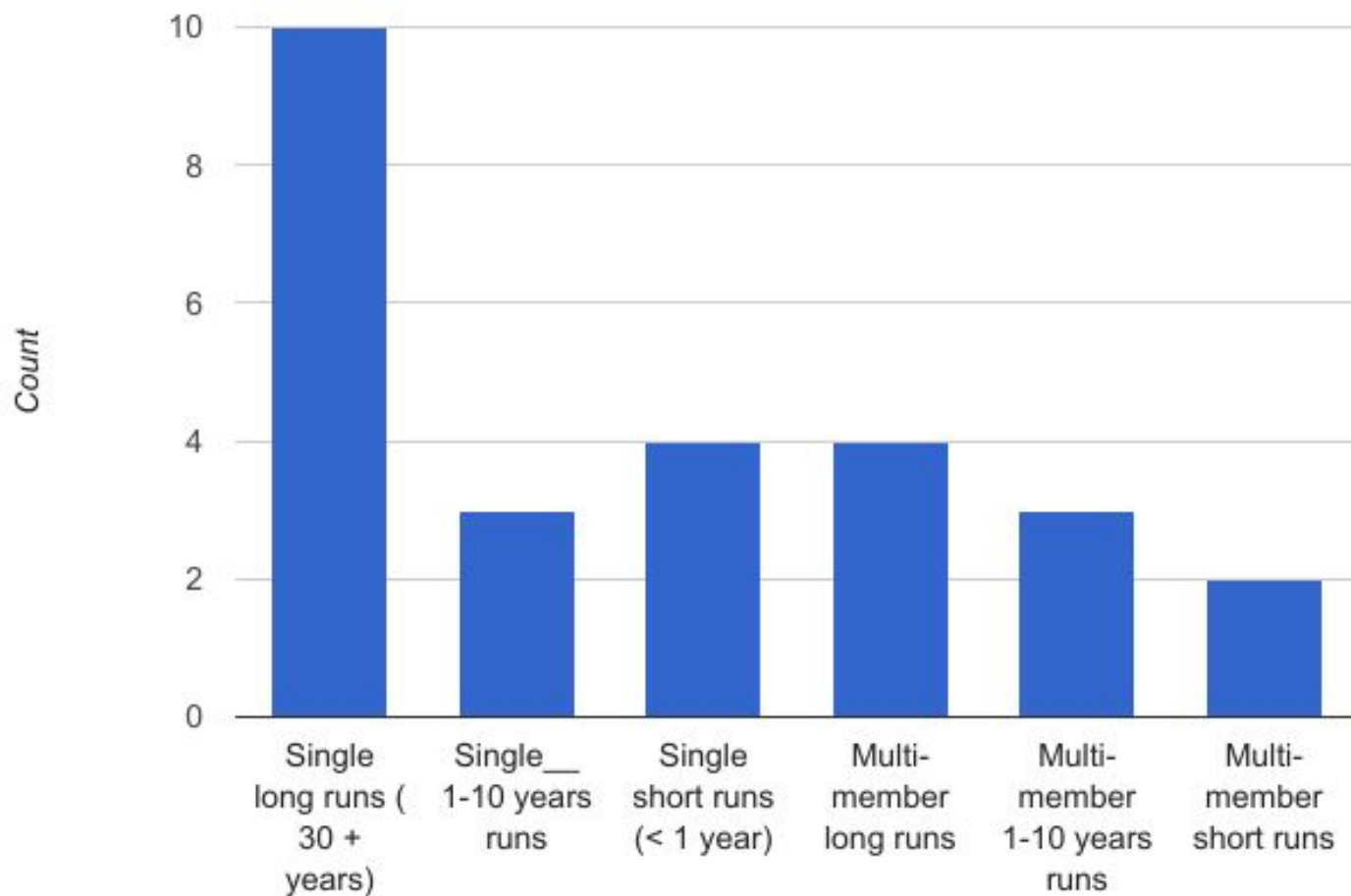
- Which one of the following workflow management systems would you be interested to learn about?



- How do you run EC-Earth?

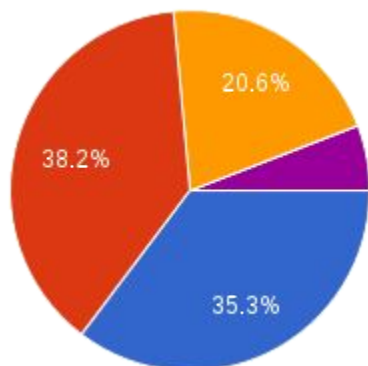


- Model simulation production

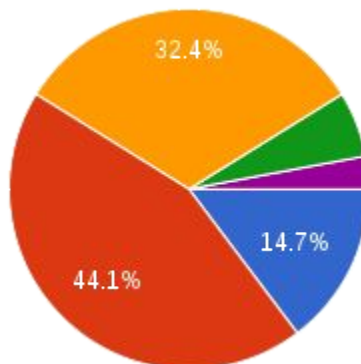


- Fundamental
- Important
- Could be useful
- Not useful
- I don't know

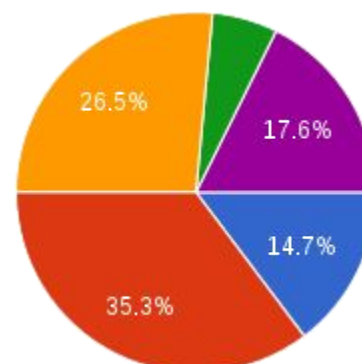
Database



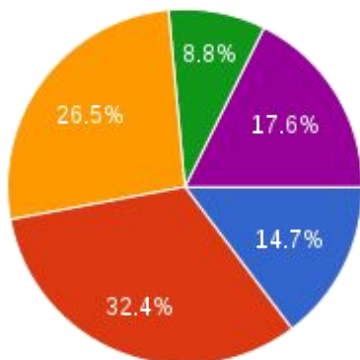
E-mail notifications



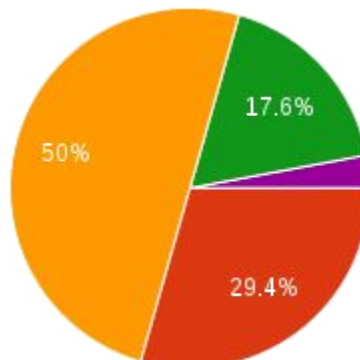
Complex workflows



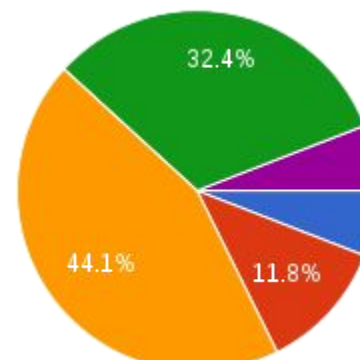
Jobs wrapper



GUI



Clock triggered jobs



- Some people are interested in a workflow management system common for EC-Earth.
- Option Autosubmit is available and will be maintained.
- Option Cylc will be implemented in the next 1-2 years.





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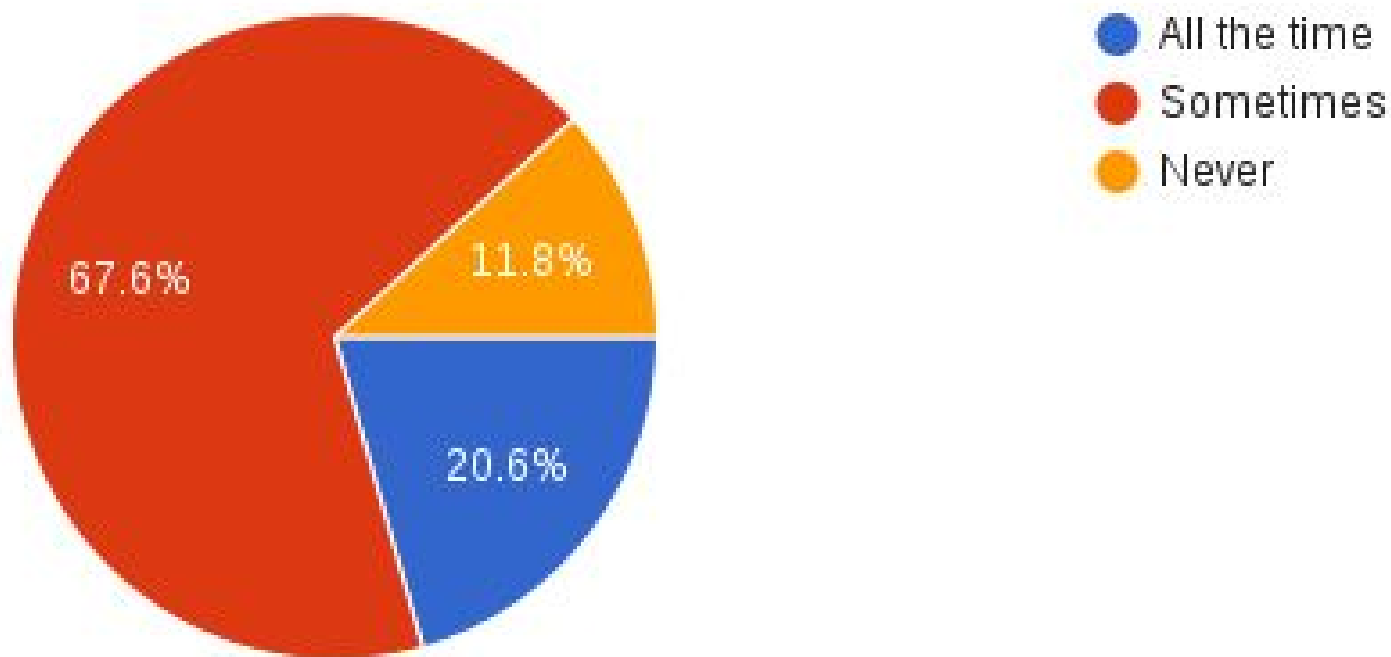


Thank you!

For further information please contact
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- Do you modify the code?



- Participants activities

